

SULFURIC ACID/PERMANGANATE CLEANUP EPA METHOD 3665 A REV 1					
Facility Name: _____ VELAP ID _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
<i>Records Examined:</i> SOP Number/ Revision/ Date _____ Analyst: _____ Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Was this method only used to cleanup extracts used in the analyses of Polychlorinated Biphenyls (PCBs)?	1.1				
Did the analyst carrying out this procedure demonstrate acceptable results with it?	1.2				
Were blanks and replicates subjected to the same cleanup as the samples associated with them?	2.2				
Were extracts exchanged to hexane prior to cleanup procedure?	2.3				
Were syringes and volumetric pipettes class A?	4.1				
Were the volumes of hexane extract used dependent upon the requirements of the GC system used?	7.1.2				
Was a 1/1,v/v H ₂ SO ₄ /H ₂ O used?	5.3				
Were vortices visible in the vial for one minute during mixing?	7.1.3				
Were phases allowed to separate for at least 1 minute?	7.1.4				
If hexane layers were colored or emulsified after separation from sulfuric acid, were the hexane layers removed, and the sulfuric acid cleanup procedures repeated a second time?	7.1.6				
Were hexane layers removed from acid and a second sulfuric acid cleaning performed on them?	7.1.9				
Were the two sulfuric acid-cleaned hexane layers combined?	7.1.10				
Were the combined hexane layers cleaned with potassium permanganate if there was still color in them?	7.2				
Notes/Comments:					

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Were 5 mL aliquots of 5% aqueous potassium permanganate solution added to combined colored hexane layers?	7.2.1				
Were vials vortexed with vortices visible in the vials for 1 minute?	7.2.2				
Were phases allowed to separate for 1 minute after cleaning with permanganate?	7.2.3				
If hexane layers were still colored or emulsified, were the permanganate layers removed and the hexane layers cleaned again with permanganate?	7.2.5				
Were permanganate layers extracted with 1 mL of hexane after cleaning, and were hexane layers combined again?	7.2.8 7.2.9				
Were combined hexane layers reduced with appropriate concentration technique to the original volume appropriate for the GC system?	7.3.1				
Notes/Comments:					